



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,997	10/13/2005	Kohsuke Harada	1560-0442PUS1	5844

2292 7590 09/03/2010
BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER

SARPONG, AKWASI

ART UNIT	PAPER NUMBER
----------	--------------

2625

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

09/03/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No. 10/552,997	Applicant(s) HARADA ET AL.	
	Examiner AKWASI M. SARPONG	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06/23/2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/13/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 12-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Alam (6336124).

Alam discloses an image processing system, (**Fig. 24 Col. 19 lines 60-65 system 2300**) comprising:

an image processing apparatus (**Server 2306 in computer system 2302**) which reads image data of an original and converts thus read image data into converted image data (**Col. 20 lines 8-12- thus server 2306 receives the original image data and convert it into appropriate intermediate format document-please see Col. 20 lines 24-27**) using a file format which is determined from among plural file formats (**Col. 5 lines 26-34- understand the input/output formats can be any of the plurality of formats disclosed in Col. 5 lines 25-34**) and which includes an adding unit that adds an imaging processing command to the converted image data (**Col. 20 lines 24-32- thus before the image is converted into the appropriate output format, it is first converted into intermediate format as described in Col. 7 lines 15-16, converting the image data into an intermediate format includes storing a tag in the image**

Art Unit: 2625

document hence the tag is added to the image document) only when permitted to do so by a judging unit **(Col. 20 lines 24-29, thus before the image is converted into an intermediate format, it is determined whether the image is in a supported format therefore it is judged whether converting the image data is permitted)** and an image receiving apparatus **(Col. 20 lines 8-10-output device such as PDA 2308)** which receives from said image processing apparatus the converted image data and when the image processing command has been added to the converted image data thus received, **(Col. 20 lines 8-12- thus the image data can be displayed only when the image is converted into an output format document- that is when all appropriate conversions are done)** performs upon thus received converted image data an image processing which corresponds to the image processing command thus added **(Col. 20 lines 8-12- thus after the image data is converted it is then transferred to any of the output device such as PDA 2308 for it to display).**

wherein said image processing apparatus further comprises:

a storage unit **(hard drive shown in fig. 2)** which stores information regarding the plural file formats, **(Col. 4 lines 39-42- thus the programs that support the invention which includes the formats such as PDF RTF etc disclosed in Col. 5 lines 25-34 are stored in the hard drive)** said information including whether or not said plural file formats permit addition of the image processing command to the converted read image data **(Col. 20 lines 24-32 thus if the input document is not in a supported format then the processor cannot convert it and therefore addition is not permitted)** and

Art Unit: 2625

the judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) which judges whether or not the file format of the converted image data has said information in said storage unit that permits addition of the image processing command to the converted read image data,(**inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention as clearly disclosed in Col. 4 lines 39-42**) since and

said judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) only permits addition by said adding unit of the image processing command to the converted image data when said judging unit judges that the file format of the converted image has said information in said storage unit that permits addition of the image processing command to the converted image data. (**Col. 20 lines 22-27- thus when the input document is in a supported format that is only then that the process can go forward for the input document to be converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”**).

Art Unit: 2625

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document).

Claim 13, Alam discloses an image processing apparatus **(Server 2306 in computer system 2302)** which reads image data of an original and converts thus read image data into converted image data **(Col. 20 lines 8-12- thus server 2306 receives the original image data and convert it into appropriate intermediate format document-please see Col. 20 lines 24-27)** using a file format which is determined from among plural file formats **(Col. 5 lines 26-34- understand the input/output formats can be any of the plurality of formats disclosed in Col. 5 lines 25-34)**

and which includes an adding unit that adds an imaging processing command to the converted image data **(Col. 20 lines 24-32- thus before the image is converted into the appropriate output format, it is first converted into intermediate format and as described in Col. 7 lines 15-16 converting the image data into an intermediate format includes storing a tag in the image document hence the tag is added to the image document)** only when permitted to do so by a judging unit, **(Col. 20 lines 24-29, thus before the image is converted into an intermediate format, it is determined whether the image is in a supported format therefore it is judged whether converting the image data is permitted)** said image processing apparatus further comprising:

Art Unit: 2625

a storage unit (**hard drive shown in fig. 2**) which stores information regarding the plural_file formats, (**Col. 4 lines 39-42- thus the programs that support the invention which includes the formats such as PDF RTF etc disclosed in Col. 5 lines 25-34 are stored in the hard drive**) said information including whether or not said plural formats permit addition of the image processing command to the converted image data (**Col. 20 lines 24-32 thus if the input document is not in a supported format then the processor cannot convert it and therefore addition is not permitted**) and

the judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) which judges whether or not the file format of the converted image data has said information in said storage unit that permits addition of the image processing command to the converted read image data, (**inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention as clearly disclosed in Col. 4 lines 39-42 will have the information that will support the image conversion**)

wherein said judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) only permits_addition by said adding unit of the image processing command to the converted image data when the judging unit judges that the file format of the converted image has said information in said storage unit that permits addition of the image processing command to the converted image data. (**Col. 20 lines**

Art Unit: 2625

22-27- thus when the input document is in a supported format that is only then that the process can go forward for the input document to be converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”).

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document)

Claim 14, Alam discloses wherein at least one of the file formats which permit addition of the image processing command to the converted image data is PDF (Portable Document Format). **(Col. 5 lines 25-34- thus the list of input and output formats includes PDF)**

Claim 15, Alam discloses that the image processing apparatus further comprising a determining unit **(portion of the server that determines whether the input document is in the supported format)** which determines in accordance with a load condition whether to enable the judging unit **(Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system)** to operate or to prevent the judging unit from operating to insure that there is no addition of the image processing command to

Art Unit: 2625

the converted image data regardless of the information in said storage unit. **(Col. 20 lines 22-27- thus when the input document is in a supported format that is only then that the process can go forward for the input document to be converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”).**

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document)

Claim 16, Alam discloses further comprising a sending unit which sends the converted image data. **(Col. 20 lines 66-67- thus the converted image data is send by a portion of the server to be displayed on any of the output device)**

Claim 17, Alam discloses wherein at least one of the file-formats which permit addition of the image processing command to the converted image data is a file format in which a destination of the converted image data can execute the image processing command. **(Col. 5 lines 35-45- thus the image format has to be supported by the output device before it can be converted and displayed)**

Art Unit: 2625

Claim 18, Alam discloses wherein at least one of the file which permit addition of the image processing command to the converted image data is PDF (Portable Document Format). **(Col. 5 lines 25-34- thus the list of input and output formats includes PDF).**

Claim 19, Alam discloses further that the image processing apparatus comprising a determining unit **(Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system)** which determines in accordance with a load condition, **(load condition means that the determination is based on the type of input/ output format as disclosed in Col. 5 lines 21-35)** whether enable the judging unit to operate or to prevent the judging unit from operating to insure that there is no addition of the image processing command to the converted image data regardless of the information in said storage unit. **(Col. 20 lines 23-32- thus depending on the type of format the image data will either be processed or not) (NB: understand that processing of the image data involves converting the image data to intermediate data which includes the addition of tags as disclosed in Col. 7 lines 15-18).**

Claim 20, Alam discloses wherein said sending unit sends an electronic mail to whole wherein said sending unit sends an electronic mail to which the converted image data determined is attached. **(Col. 20 lines 64-67- thus the final converted image**

Art Unit: 2625

data is definitely send electronically because it is a communication between to electronic devices)

Claim 21, Alam discloses wherein at least one of the file formats which permits addition of the image processing command to the converted image data is a file format in which a destination of the converted image data can execute the image processing command. **(Col. 5 lines 35-45- thus the image format has to be supported by the output device before it can be converted and displayed)**

Claim 22, Alam discloses wherein the at least one of the file formats which permits addition of the image processing command to the converted image data is PDF (Portable Document Format). **(Col. 5 lines 25-34- thus the list of input and output formats includes PDF).**

Claim 23, Alam discloses comprising a determining unit **(Col. 20-lines 24-27- portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system)** which determines, in accordance with a load condition, **(load condition means that the determination is based on the type of input/ output format as disclosed in Col. 5 lines 21-35)** whether to enable the judging unit to operate or to prevent the judging unit from operating to insure that there is no addition of the image processing command to the converted image data regardless of the information in said storage unit. **(Col. 20 lines**

Art Unit: 2625

23-32- thus depending on the type of format the image data will either be processed or not) (NB: understand that processing of the image data involves converting the image data to intermediate data which includes the addition of tags as disclosed in Col. 7 lines 15-18).

Claim 24, Alam discloses an image processing apparatus **(Server 2306 in computer system 2302)** which reads image data of an original and converts thus read image data into converted image data **(Col. 20 lines 8-12- thus server 2306 receives the original image data and convert it into appropriate intermediate format document-please see Col. 20 lines 24-27)** using_a file format which is determined from among plural file formats **(Col. 5 lines 26-34- understand the input/output formats can be any of the plurality of formats disclosed in Col. 5 lines 25-34)** and which includes an adding unit that adds an imaging processing command to the converted image data **(Col. 20 lines 24-32- thus before the image is converted into the appropriate output format, it is first converted into intermediate format and as described in Col. 7 lines 15-16 converting the image data into an intermediate format includes storing a tag in the image document hence the tag is added to the image document)** only when permitted to do so by a judging unit, **(Col. 20 lines 24-29, thus before the image is converted into an intermediate format, it is determined whether the image is in a supported format therefore it is judged whether converting the image data is permitted)** said image processing apparatus comprising:

a storage unit (**hard drive shown in fig. 2**) which stores information regarding the plural file formats, (**Col. 4 lines 39-42- thus the programs that support the invention which includes the formats such as PDF RTF etc disclosed in Col. 5 lines 25-34 are stored in the hard drive**) said information including whether or not said plural_file formats prohibit_addition of the image processing command to the read image data (**Col. 20 lines 24-32 thus if the input document is not in a supported format then the processor cannot convert it and therefore addition is not permitted**) and

the judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) judges whether or not the file format of the converted image data has said information in said storage unit that prohibits addition of the image processing command to the converted read image data, (**inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention as clearly disclosed in Col. 4 lines 39-42**)

wherein when said judging unit (**Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system**) judges that the file format of the converted_image data of has said information in said storage unit regarding that prohibits addition of the image processing command to the converted image data, said judging unit prohibits addition by said adding unit of the image processing command to the read image data. (**Col. 20 lines 22-27- thus when the input document is in a supported format that is only then that the process can go forward for the input document to be**

Art Unit: 2625

converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”).

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document)

Claim 25, Alam discloses wherein at least one of the file formats which prohibits addition of the image processing command to the converted image data is TIFF (Tagged Image File Format) **(Col. 5 lines 25-34- thus the list of input and output formats includes tagged image file format (TIFF)).**

Claim 26, Alam discloses an image processing method according to which an image processing apparatus, **(Server 2306 in computer system 2302)** which comprises a controller which performs image processing control including control of said adding unit to permit the adding unit to add an image processing command to converted image data **(Col. 20 lines 8-12- thus server 2306 receives the original image data and convert it into appropriate intermediate format document-please see Col. 20 lines 24-27)** and control of reading image data of an original and conversion of the thus read image data into said converted image data using a file format which is determined from among plural file formats, **(Col. 5 lines 26-34- understand the input/output**

Art Unit: 2625

formats can be any of the plurality of formats disclosed in Col. 5 lines 25-34) said image processing method comprising steps of:

disposing to said image processing apparatus a storage unit **(hard drive shown in fig. 2)** which stores information regarding a said plural file formats, **(Col. 4 lines 39-42- thus the programs that support the invention which includes the formats such as PDF RTF etc disclosed in Col. 5 lines 25-34 are stored in the hard drive)** said information including whether or not said file formats permit addition of the image processing command to the converted image data **(Col. 20 lines 24-32 thus if the input document is not in a supported format then the processor cannot convert it and therefore addition is not permitted)**

making said controller judge **(Col. 20-lines 24-27-portion of the computer system 2303 that determines in step 2508 if the input document is a supported format in the computer system)** whether or not the file format of the converted image data has at least said information in said storage unit that permits addition of the image processing command to the converted image data; **(inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention as clearly disclosed in Col. 4 lines 39-42)** and making said controller permit addition by said adding unit of the image processing command to the converted image data only when it is judged that the file format that-of the converted image data has said information in said storage unit that permits addition of the image processing command to the converted image data. **(Col. 20 lines 22-27- thus when the input document is in a supported format that is only then that the**

Art Unit: 2625

process can go forward for the input document to be converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”).

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document)

Claim 27, Alam discloses an image processing method according to which an image processing apparatus, **(Server 2306 in computer system 2302)** which comprises a controller which performs image processing control including control of an adding unit to prohibit the adding unit from adding an image processing command to converted image data **(Col. 20 lines 8-12- thus server 2306 receives the original image data and convert it into appropriate intermediate format document-please see Col. 20 lines 24-27)** and control of reading of image data of an original and conversion of the thus read image data into said converted image data using a file format which is determined from among plural file formats, **(Col. 5 lines 26-34- understand the input/output formats can be any of the plurality of formats disclosed in Col. 5 lines 25-34)** said image processing method comprising steps of:

disposing to said image processing apparatus a storage unit **(hard drive shown in fig. 2)** which stores information regarding said plural_file formats, **(Col. 4 lines 39-42-**

Art Unit: 2625

thus the programs that support the invention which includes the formats such as PDF RTF etc disclosed in Col. 5 lines 25-34 are stored in the hard drive) said information including whether or not said file formats prohibit addition of the image processing command to the converted image data (Col. 20 lines 24-32 thus if the input document is not in a supported format then the processor cannot convert it and therefore addition is not permitted)

making said controller judge whether or not the file format of the converted image data has said information in said storage unit addition of the image processing command to the converted image data **(inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention as clearly disclosed in Col. 4 lines 39-42)** and making said controller prohibit addition by said adding unit of the image processing command to the converted image data it is judged that the file format that the image data of the original has been converted into has said information in said storage unit that prohibits addition of the image processing command to the read image data. **(Col. 20 lines 22-27- thus when the input document is in a supported format that is only then that the process can go forward for the input document to be converted into intermediate format and finally into output format and Looking at Col. 20 lines 33-35 “a table of contents may be generated using headings as described above and inserted in the output format document”).**

(Therefore the headings is permitted to be inserted (added) into the output format document only when it is determined by the judging unit that there is a supported format for the input document)

Response to Arguments

2. Applicant's arguments filed 06/23/2010 have been fully considered but they are not persuasive.

Regarding Claim 12 applicant argues that the cited reference as used in the Office action fails to disclose "adding unit," this unit is claimed to add "an imaging processing command to the converted image, data only when permitted to do so.

In reply, Examiner respectfully disagrees because in Col. 20 lines 24-32 "if the input document is in a supported format". Also understand that the input document is being requested to be displayed on a screen and therefore the format of the screen needs to be supported before it can be displayed –please see Col. 20 lines 8-12.

In Col. 20 lines 24-35 if it is determined that the format is supported, (judgment unit), then the input document is converted into intermediate format document. Clearly in Col. 20 lines 33-35 after it is judged that there is a support format there the headings are inserted into the final format. Therefore the insertion or addition of headings happens after it is judged that the input document can be converted.

Also applicant also argues that the cited reference fails to suggest that the hard drive stores the claimed information regarding whether or not a file format permits addition of a processing command to the converted image data".

In reply, Examiner respectfully disagree because in Col. 4 lines 39-42 that "the system memory and a hard drive which can be utilized to store and retrieve software programs incorporating computer code that implements that invention, data for use with the invention" Therefore all that determination and conversion happening in the disclosed invention has a system memory and hard drive that contains code or programs that supports the implementation of the invention.

In other words inherently if the input document is supported by the computer system 2302 then the hard drive that contains all the programs that support the invention.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 2625

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AKWASI M. SARPONG whose telephone number is (571)270-3438. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/552,997

Page 20

Art Unit: 2625

/King Y. Poon/

Supervisory Patent Examiner, Art Unit 2625

/Akwasi M Sarpong/

Examiner, Art Unit 2625